

Collections of W. W. Rieby from Harding quad 34  
(small) all

Lot nos. 25 & 25a, Magnoketa sh. 75 to 100 ft  
above base NE  $\frac{1}{4}$  of SW  $\frac{1}{4}$  Sec. 20 T. 11 S. R. 2 W.

25. *Lingula whitfieldi* Alr.  
*Lingula* sp.  
*Platystrophia* sp. frag.  
*Leopoldia* sp.  
*Leopoldia gracilis*  
*Clonodonta similis* Alr.  
*Clonodonta secunda*  
*Cleidophorus neglectus*.

(1)

*Geisonoceras*  
*Orthoceras sociale*  
*Rionoceras* sp.  
*Brachiopod* *busae* Whitf.

25a. all specimens poorly preserved in conglomerate  
*Lingula* sp.  
1 pelecypod prob. *Clon. secunda*  
3 frags of 3 parts  
2 *Trilobites* { *Brachiolepis busae*  
                            *frag. of pygid* *Calymene*  
2 or three *Orthis* etc.

(2)

Lot 25b. - Magnoketa sh. - probably 25 to 35 ft above the  
base NE  $\frac{1}{4}$  of NW  $\frac{1}{4}$  sec 8. T. 11 S. R. 2 W.

Phosphatic layer with *Lingula* etc. 18 ft above  
hard calcareous shale just above water level

Practically nothing except

*Lingula whitfieldi*?

frag of pelecypod.

Lot 166 - Magnoketa shale - 4 ft above base -  
north center SE  $\frac{1}{4}$  sec 5. T. 12 S. R. 2 W.

(4) Thin brown congl. - prob. phosphatic - platy  
marly ss with few microscopic fossils  
*Lingula* fragment prob. *Changi*  
*Cleidophorus neglectus* - very small.  
*Leopoldia* sp.  
*Bellerophon*  
*Orthoceras sociale*

41/2 9  
41/2 5  
41/2 1



Lot no 38 - Magnoketa sh - 3 ft above base

SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec. 29. T. 11 S. R. 2 W.

*Leptodolus occidentalis*  
*Lingula* aff *obliqua* & *aequalis*.

(31)  
*Orthis* sp.  
*Conularia* ceph.  
*Amphysina* *ballulata* Savage.  
*Vogdesia* sp.  
*Ceratopsis robusta* Ulr.  
Ostracod small simple sp.

Lot 171 Formation - Magnoketa a zone of weathered  
shale from 2 to 6 inches thick which lies uncon-  
(6) formably upon Kimmewick and is separated  
from overlying Magnoketa shale by a sharp contact.

SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec. 17 T. 12 S. R. 2 W.

*Sowerbyella* - medium sized very fine lined, abundant  
Cystid plates and columnals.

*Dalmanella*  $\frac{1}{2}$  in., rather finely striated

*Modiolodesma*  
*Ctenodonta*, Prob  $\frac{1}{2}$  inch long.

*Lophospira* sp.

*Micrurus*  
*cyclora*.

*Cyrtospira*  
*Orthoceras sociale*. This may belong to the <sup>matrifid</sup>

"The general aspect of this fauna suggests magnoketa  
rather than Kimmewick which it should if these  
chest inclusions in this basal magnoketa bed  
are really residual." E. A.



Lot No 165 = Kimmewick ls - uppermost 4 inches -  
NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 32, T. 11 S. R. 2 W.

" upper Kimmewick ls. Essentially the same or at  
least includes same faunal elements as 168 + 172.

The fauna adds a number of species not observed  
in those collections viz:

(7) *Hermatoma major*  
*Remopleurides missouriensis*  
*Crania aff. setigera*

*Batostoma*  
The *Platystrophia* in all three collections  
is referred to *Carthenius species sheppardi*,

(C & Formosa)

Lot No 7. - Kimmewick ls - upper few ft. same locus as above -  
NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 32, T. 11 S. R. 2 W.

is a young one

(8) *Chynchotrema* sp. of *siofieldi*

*Parastrophia* sp.

*Platystrophia*, long tanged

*Rafinesquina* of *deltoidea* Formosa

*Calymene* & *gracilis* *Aloucum*.



Lot no 172 - Kimmewick ls. uppermost 6 inches;  
nw  $\frac{1}{4}$  sw.  $\frac{1}{4}$  sec 28 T. 12 S. R. 2 W.

*Strophomena* 2 species

*Playfairia*

*Sowerbyella* 2 sp.

(9) *Platystrophia* (long hinged)

*Rhynchotrema*? (cf. *typ. Trenton species*)

*Streptelasma corniculum*

*Ceraurus*

*Illaenus*. cf. *americanus*

Thick rounded columnals.

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Lot no 170 - Kimmewick ls. - uppermost 8 inches -  
N  $\frac{1}{4}$  E  $\frac{1}{4}$  sec. 17, T. 12 S Range 2 W.

Essentially same horizon and fauna as 165, 167, 168 & 172.

adds a good specimen of the long-hinged *Strophomena*  
of 168 which form *Tierste* figures in his Kimmewick  
and Platteau ls. paper (1920) as *S. incurvata*

(10) also *Glyptorthis* aff. *insculpta*

*Linorthis* aff. *subquadrata*

*Isotelus* aff. *platycephalus*

*Ceraurus* sp. = the one described and referred by  
*Tierste* to *C. bispinosa* Raymond.

*Echaropora* cf. *subrecta*



Lot No 168. Kimmewick ls. - from  $\frac{1}{2}$  to 1 foot below  
top - S E  $\frac{1}{4}$  S E  $\frac{1}{4}$  sec. 8. T. 12 S. R. 2 W.

Same fauna as 172. Adds two other species

- (11) *Strophomena* - one like *fluctuosa*  
*Parastrophia* cf *scottfieldi*  
*Parastrophia* " *rotundiformis* (w \_\_\_\_\_)  
*Rhychoptrema* cf *increbescens*

No 167 L. - Kimmewick ls -  $\frac{1}{2}$  ft below top. N center  
S E  $\frac{1}{4}$  sec. 5, T. 12 S., R 2 W. up. Kimmewick

- (12) *Vanuxemia*  
*Cyrtodonta*  
*Sinuites*  
*Tetranota obsoleta*.  
Large *Playfairia* looking much like *Raf. nasuta*

167a. Upper Kimmewick. 3 ft below top. same  
loc as 167 L.

Loc same same fossils as above in 167 L.

(13)



Lot no 81. 1 to 2 ft below top Kinnearick.  $NE\frac{1}{4}$   $NE\frac{1}{4}$   
sec 5 T12 R. R. 2 W.

(14)

Rhynchotrema capax, poor specimen

Plectambonites sp

Ilacmus sp

Ilacmus sp

Lot 43 = Kinnearick ls. Probably from uppermost 20 ft  
of formation, S. center  $SE\frac{1}{4}$  sec 32 T11 S R2 W.

(15)

(Coral) Streptelasma

Rafinesquina cf nasuta

Plectambonites

Platystrophia

Bryozoa

Fragments of Receptaculites

Ilacmus

Pterygometopus

Ostracods



Lot 40 - Prob. about 10-20 ft below top of  
Kimmerick ls. Center NW  $\frac{1}{4}$  section 32  
T. 11 S. R. 2 W.

(16) *Streptomena*  
*Rafinesquina nasuta*  
*Clidophorus neglectus*  
*Plectambonites?*

Lot no 82. = 20 to 25 ft below top Kimmerick ls.,  
NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec 5 T. 12 S. R. 2 W.

(17) *Pholidops?*  
*Plectambonites*  
*Strophomena*  
*Rafinesquina*  
*Iotulus*  
*Ostracods (few)*



Lot No 41. = Probably from near middle of  
Kimmerwick formation.

S. E  $\frac{1}{4}$  S E  $\frac{1}{4}$  sec 31. T. 11 S. R. 2 W.

Mostly fragmentary small lot.

3 Bryozoa.

Strophomena frag.

(18) Two or three frags. of other brachs.

1 Ostracod.

Lot No 3 a, Lower or middle part of Kimmerwick ls.

N E  $\frac{1}{4}$  S W.  $\frac{1}{4}$  sec. 17 T. 12 S. R. 2 W.

1 Bry. poor

19 Dalmanella prob 2 sp.

Orthocephomena sp.

Frag of Pterygometopus pygid.



Lot No 88 & 175 = Iron basal foot of Kimmewick ls  
NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec 32. T 12 S. R. 2 W.

Both 88 & 175 from same loc. and same beds.

Eight ft above coll 173 and 13 ft above Coll 174

Coral Columnaria sp.  
~~Streptelasma~~  
Bryozoa 3. sp.

(26)

Orthis

Dalmanella

Large Plectambonites

Rafinesquina sp.

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Lot No. 8 = 1 foot below top of Decorah member  
of Platteau formation - SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  sec 6.

T 12 S. R. 2 W.

Strophomena cf. incurvata  
~~Lioaspid~~ ~~Pygospira~~ nicolleti.

(21)

Homotoma

2 other gasts

Ceraurus aff. hispidosa

~~Cerauripus~~  
Pterygomelopus sp. frag.

Maenura



Lot No 2 = 4 ft below top of Decorah member  
of Platte formation SE  $\frac{1}{4}$  sec 19

T. 12 S. R. 2 W.

(27) *Salmanella*

*Strophomena*

Two *Pelecypods*

East (poor section only)

*Isotelus*

*Ceraurus* sp. cf. *bispinosus*

*Clarkaspis* cf. *tuberculatus* in *Dalmanella*

Lot No 26a = Decorah (?) member of Platte formation -

(23) (horizon unknown) NW  $\frac{1}{4}$  sec 17 T. 12 S. R. 2 W.  
Fragmentary pieces of *Liospira*.

"Autumn Chert Horizon" Era

Lot No 173 = (~~from basal 1 ft of Decorah member of~~  
~~Platte ls~~) Center NE  $\frac{1}{4}$  sec. 32. T. 12 S. R. 2 W.

(24) *Bryozoa* *Prasopora* sp.

*Liospira* cf. *accoliti*.

*Rafinesquina* sp.

*Pelecypod* frags *Ctenodonta* sp.

*Staculus*

*Hermatoma* cf. *gracilis*

Two or three other small *Labrum*.



Lot 174 = 5 ft below top Platin ls. Center NE  $\frac{1}{4}$   
sec. 32, T12S. R. 2W. (5 ft below Decor-  
ah (?) chocolate brown beds (173)

(25.) "High Platin - and a question whether it  
should not be called upper Black River rather  
than Late Louville" Eou  
Crinoid columnals

Bry {

~~Orthis~~  
Strophomena  
~~Rafinesquina~~  
Zygospira  
Pionodema sp.

Numerous.

Harmatoma cf. gracilis

Pterygometaurus

Free cheek. long, slender, suggests Bathyrurus



Lot 89. About 15 ft below top Platten ls.  
NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec 32 T12 S. R. 2 W.

Rafinesquina sp.  
" sp 2?

Zygospira sp.  
L. Pignodelina sp.  
Lospira sp.  
Castris frag.

Lot No 26. - about 15 ft below top of Platten ls.  
SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec. 7 T. 12 S. R. 2 W.

Zygospira sp.  
Strophomena sp.  
Ostracod punctate, globose

No. Lot. 8a Platten(?) ls. horizon unknown. SE  $\frac{1}{4}$  SE  $\frac{1}{4}$   
sec 7. T. 12 S. R. 2 W.  
Poor small lot three pieces.  
Unnid columnals.  
Orthoceras undet.



86 = Probably about middle Platten ls.  
N E  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 32. T 12 S. R. 2 W.

Indeterminable lot containing  
sections of

Gastropods.

Prob Cleidonta

Lepiditina.

Lithology, Platten ls.

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Lot no 5 = 4 ft above base of Platten ls. center  
NW  $\frac{1}{4}$

Rafinesquina

Droptomena

Dalmanella

Orthis

Lepiditina

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Lot No 4 = 3 to 7 ft above base Platten ls. E. quarter  
corner sec 19. T. 12 S. R. 2 W.

Strophomena

Liopectera?

Bathyrus sp

Lepiditina sp.



Hardin-Brussels Quad sec.

I-71 - Magnoketa - N.E. N.E. sec 5 T. 12 S.

R. 2 W. Granular phosphatic bed with  
abundant micro-fossils.

*Cleidophorus neglectus*

<sup>Bellerophon</sup>  
Several minute low spined gastropods

*Hormotoma cf. gracilis*.

*Orthoceras sociale*

Same horizon as 166.